



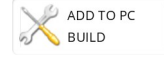
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- CPU
- GPU
- SSD
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- RAM
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Asrock Z170 Pro4S

Performance Results



Benchmarks - excluding SSD



Gaming **71%**
Battleship



Desktop **70%**
Battleship



Workstation **58%**
Gunboat

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PC Status

Overall this PC is performing below expectations (28th percentile). This means that out of 100 PCs with exactly the same components, 72 performed better. The overall PC percentile is the average of each of its individual components. Use the charts in the benchmark sections of this report to identify problem areas.

Processor

With a brilliant **single core** score, this CPU is the business: It demolishes everyday tasks such as web browsing, office apps and audio/video playback. Additionally this processor can handle moderate workstation, and even light server workloads. Finally, with a gaming score of 98%, this CPUs suitability for 3D gaming is outstanding.

Graphics

72.9% is a good 3D score. This GPU can handle the majority of recent **games** at high resolutions and ultra detail levels.

Boot Drive

The boot partition is located on a mechanical or hybrid drive. Moving the system to an SSD will yield far faster boot times, better system responsiveness and faster application load times.

Memory

16GB is enough RAM to run any version of Windows and it's more than sufficient for nearly all games. 16GB also allows for very large file and system caches, software development and batch photo editing/processing.

OS Version

Windows 10 is the most recent version of Windows, and the best to date in our opinion.

Motherboard	Asrock Z170 Pro4S (all builds)
Memory	12.7 GB free of 16 GB @ 2.1 GHz
Display	1920 x 1080 - 32 Bit colors
OS	Windows 10
BIOS Date	20161128
Uptime	0 Days
Run Date	Jun 13 '17 at 18:00
Run Duration	125 Seconds
Run User	USA-User
Background CPU	2%

⚠️ PC Performing below expectations (28th percentile) ?

Actual performance vs. expectations. The graphs show user score (x) vs user score frequency (y).

Processor	Bench ?	Single core ?	Quad core ?	Multi core ?
<p>Intel Core i7-7700K-\$309 37,245 User benchmarks - Average bench 100% CPUSocket, 1 CPU, 4 cores, 8 threads Base clock 4.2 GHz, turbo 4.35 GHz (avg) ⚠️ Performing below expectations (40th percentile) ?</p>	98% Outstanding	SC Int 132 SC Float 139 SC Mixed 136 109% 136 Pts	QC Int 477 QC Float 491 QC Mixed 480 109% 483 Pts	MC Int 678 MC Float 780 MC Mixed 750 110% 736 Pts
<p>Poor: 89% ↑ This bench: 98% Great: 115%</p>				
Graphics Card	Bench ?	3D DX9 ?	3D DX10 ?	3D DX11 ?
<p>Nvidia GTX 1060-6GB-\$240 68,874 User benchmarks - Average bench 71% Gigabyte(1458 371A) MaxC: 1961 MHz, MaxM: 2002 MHz, Ram: 6GB, Driver: 382.53 ✔️ Performing above expectations (77th percentile) ?</p>	72.9% Very good	Lighting 231 Reflection 201 Parallax 235 70% 222 fps	MRender 147 Gravity 206 Splattling 164 78% 172 fps	
<p>Poor: 63% ↑ This bench: 72.9% Great: 77%</p>				
Drives	Bench ?	Sequential ?	Random 4k ?	Deep queue 4k ?
<p>Seagate Barracuda 2TB (2016)-\$67 5,871 User benchmarks - Average bench 100% 2TB free Firmware: CC26 Max speed: SATA 3.0 600 MB/s SYSTEM NCQ 7200 RPM 4KALIGNED S.M.A.R.T ~ ⚠️ Performing way below expectations (4th percentile) ?</p>	78.5% Very good	Read 101 Write 173 Mixed 168 112% 147 MB/s	4K Read 0.46 4K Write 1.16 4K Mixed 0.14 56% 0.58 MB/s	
<p>Poor: 81% ↑ This bench: 78.5% Great: 111%</p>				
<p>Toshiba MD04ACA400 4TB-\$140 894 User benchmarks - Average bench 82% 959GB free Firmware: FP2A Max speed: SATA 3.0 600 MB/s NCQ 7200 RPM 4KALIGNED S.M.A.R.T ~ ⚠️ Performing way below expectations (13th percentile) ?</p>	65.8% Good	Read 119 Write 110 Mixed 110 85% 113 MB/s	4K Read 1.28 4K Write 1.84 4K Mixed 0.27 118% 1.13 MB/s	
<p>Poor: 81% ↑ This bench: 65.8% Great: 111%</p>				

Poor: 58% ↑ This bench: 65.8% Great: 99%

Memory Kit



G.SKILL Aegis DDR4 2133 C15 2x8GB
 328 User benchmarks - Average bench 70%
 2 of 4 slots used
 16GB DIMM DDR4 clocked @ 2133 MHz
 ▲ Performing way below expectations (4th percentile)

40.8%
Average

Multi core
 MC Read 14.5
 MC Write 14.3
 MC Mixed 10.9
 38% 13.2 GB/s

Single core
 SC Read 12.3
 SC Write 14.3
 SC Mixed 13.2
 38% 13.3 GB/s

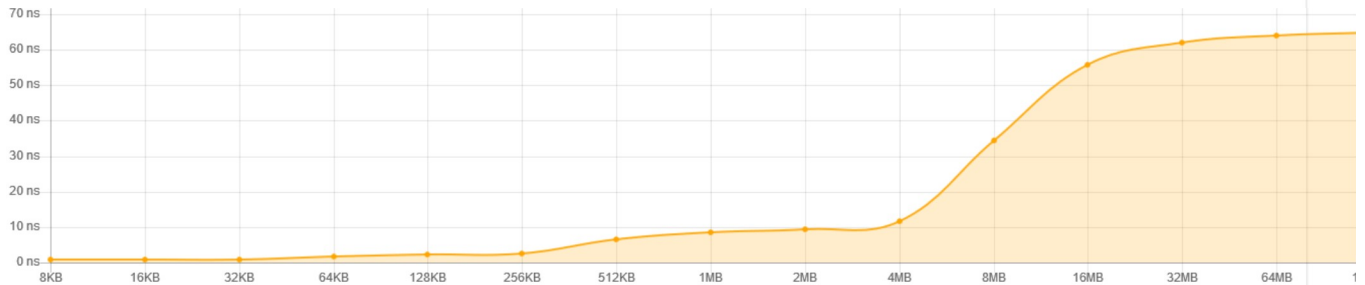
Latency
 Latency 64.9
 62% 64.9 ns

Poor: 45% ↑ This bench: 40.8% Great: 78%

Take a copy of your results </>

System Memory Latency Ladder

L1/L2/L3 CPU cache and main memory (DIMM) access latencies in nano seconds.



PC Games

Compare your in-game performance to other users with your hardware: GTX 1060-6GB, Display(CHHWJT*), 1920 x 1080, 60 Hz.

1. Pick a game that you play on this PC.

Overwatch	Counter-Strike: Global Offensive	Battlefield 1
Battlefield 4	Fallout 4	DOTA 2
Grand Theft Auto V	League of Legends	World of Tanks
World of Warcraft	The Witcher 3: Wild Hunt	Rise of the Tomb Raider

MORE GAMES

2. What settings do you play on?

Settings: Low Med High Max

3. How many (uncapped) fps do you get?

Avg. fps

SUBMIT YOUR FPS

Custom PC Builder (Explore upgrades for this PC)

Build your perfect PC: compare component prices, popularity, speed and value for money.

CHOOSE AN UPGRADE:

UserBenchmark USA-User US

CPU GPU SSD HDD RAM USB FPS COMPARE BUILD TEST

Typical Z170 Pro4S Builds (Compare 1,256 builds)

See popular component choices, score breakdowns and rankings.

Gaming 64%
Destroyer

Desktop 78%
Battleship

Workstation 51%
Yacht

Motherboard: Asrock Z170 Pro4S - \$105

CPU	GPU	SSD	RAM
Core i5-6600K Intel \$233 Bench 89%, 65,256 samples	GTX 970 Nvidia \$275 Bench 64%, 160,930 samples	850 Evo 250GB Samsung \$100 Bench 94%, 122,736 samples	Ripjaws V DDR4 2400 C15 2x8GB G.SKILL \$107 Bench 71%, 8,690 samples
Core i7-6700K Intel \$319 Bench 92%, 117,127 samples	GTX 1070 Nvidia \$390 Bench 99%, 114,318 samples	850 Evo 500GB Samsung \$150 Bench 97%, 82,502 samples	Vengeance LPX DDR4 3000 C15 2x8GB Corsair \$127 Bench 83%, 19,424 samples
Core i5-6500 Intel \$188 Bench 74%, 32,713 samples	HD 530 (Desktop Skylake) Intel Bench 7%, 35,313 samples	SSD Plus 240GB SanDisk \$76 Bench 63%, 17,047 samples	Fury DDR4 2133 C14 2x8GB HyperX \$133 Bench 72%, 9,525 samples

EDIT WITH CUSTOM PC BUILDER

Value: 82% - Excellent

Total price: \$820

f t +

The Best.

<p>CPU</p> <p>Intel Core i7-7700K \$309 AMD Ryzen 7 1700 \$300 Intel Core i5-7600K \$233</p>	<p>GPU</p> <p>Nvidia GTX 1070 \$390 AMD RX 480 \$248 Nvidia GTX 1060-6GB \$240</p>	<p>SSD</p> <p>Samsung 850 Evo 250GB \$100 Samsung 850 Pro 256GB \$138 Samsung 850 Evo 500GB \$150</p>
<p>HDD</p> <p>Seagate Barracuda 1TB (2016) \$44 Seagate Barracuda 3TB (2016) \$85 Seagate Barracuda 7200.14 1TB \$45</p>	<p>RAM</p> <p>G.SKILL Trident Z DDR4 3200 C14 4x16GB \$684 Corsair Vengeance LPX DDR4 3000 C15 2x8GB \$127 Corsair Vengeance LPX DDR4 3200 C16 2x8GB \$136</p>	<p>USB</p> <p>SanDisk Extreme 64GB \$33 SanDisk Extreme 32GB \$22 SanDisk Ultra Fit 32GB \$13</p>

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